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NEWS	5	JUL 02	CA/CAPplus enhanced with utility model patents from China
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NEWS	19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	20	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	21	SEP 17	CAPplus coverage extended to include traditional medicine patents
NEWS	22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	23	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	24	OCT 19	BEILSTEIN updated with new compounds
NEWS EXPRESS	19	SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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=> s de 19541339/pn

L1 1 DE 19541339/PN
(DE19541339/PN)

=> d ll iall

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:410587 CAPLUS

DOCUMENT NUMBER: 127:36664

ENTRY DATE: Entered STN: 03 Jul 1997

TITLE: Recovery of carbon monoxide from nitrogen-contaminated gas mixture containing hydrogen, carbon monoxide, and methane

INVENTOR(S): Fabian, Rainer

PATENT ASSIGNEE(S): Linde Ag, Germany

SOURCE: Ger. Offen., 11 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

INT. PATENT CLASSIF.:

MAIN: C01B031-18

SECONDARY: C01B003-50

ADDITIONAL: C07C009-04; C07C051-15

CLASSIFICATION: 49-2 (Industrial Inorganic Chemicals)

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19541339	A1	19970507	DE 1995-19541339	19951106 <--

DE 19541339 B4 20060810
PRIORITY APPLN. INFO.: DE 1995-19541339 19951106
PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 19541339	ICM	C01B031-18
	ICS	C01B003-50
	ICA	C07C009-04; C07C051-15
	IPCI	C01B0031-18 [I,A]; C01B0031-00 [I,C*]; C01B0003-50 [I,A]; C01B0003-00 [I,C*]
	IPCR	C01B0003-00 [I,C*]; C01B0003-50 [I,A]; C01B0031-00 [I,C*]; C01B0031-18 [I,A]; F25J0003-02 [I,A]; F25J0003-02 [I,C*]; F25J0003-06 [I,A]; F25J0003-06 [I,C*]
	ECLA	C01B003/50D; C01B031/18; F25J003/02A6; F25J003/02C14; F25J003/02C10; F25J003/06C10

ABSTRACT:

The procedure involves (1) cooling and partial condensation of a H₂-CO-CH₄ mixture containing N₂, (2) withdrawal of 1st H₂-rich gaseous fraction, (3) charging of a H₂-CO-CH₄-N₂ condensate to a H₂-stripping column, (4) separation of a 2nd H₂-rich fraction and a CO-rich fraction containing CH₄ and N₂, (5) separation of the latter fraction in a 1st rectification column to obtain a N₂-rich fraction and CO-rich fraction containing CH₄, (6) charging of the latter fraction into a 2nd rectification column to obtain a high-purity CO fraction and a CH₄-containing fraction.

SUPPL. TERM: carbon monoxide recovery cryogenic distn
INDEX TERM: 630-08-0P, Carbon monoxide, preparation
ROLE: PUR (Purification or recovery); PREP (Preparation)
(recovery of carbon monoxide from nitrogen-contaminated gas mixture containing hydrogen, carbon monoxide, and methane)
INDEX TERM: 74-82-8, Methane, processes 1333-74-0, Hydrogen, processes
7727-37-9, Nitrogen, processes
ROLE: REM (Removal or disposal); PROC (Process)
(removal in recovery of carbon monoxide from nitrogen-contaminated gas mixture containing hydrogen, carbon monoxide, and methane)

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L2 1 EP 0933330/PN
(EP933330/PN)

=> d 12 iall

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:505775 CAPLUS
DOCUMENT NUMBER: 131:131939
ENTRY DATE: Entered STN: 16 Aug 1999
TITLE: Separation of carbon monoxide from nitrogen-contaminated gaseous mixtures also containing hydrogen
INVENTOR(S): McNeil, Brian Alfred; Truscott, Alan Geoffrey
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: C01B003-50
SECONDARY: F25J003-02
CLASSIFICATION: 49-9 (Industrial Inorganic Chemicals)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 933330	A2	19990804	EP 1999-300586	19990127 <--
EP 933330	A3	20010718		
EP 933330	B1	20030611		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6070430	A	20000606	US 1999-240942	19990129
PRIORITY APPLN. INFO.:			GB 1998-2231	A 19980202

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 933330	ICM	C01B003-50
	ICS	F25J003-02
	IPCI	C01B0003-50 [ICM,6]; C01B0003-00 [ICM,6,C*]; F25J0003-02 [ICS,6]
	IPCR	C01B0003-00 [I,C*]; C01B0003-50 [I,A]; C01B0031-00 [I,C*]; C01B0031-18 [I,A]; F25J0003-02 [I,A]; F25J0003-02 [I,C*]; F25J0003-06 [I,A]; F25J0003-06 [I,C*]
	ECLA	C01B003/50D; C01B031/18; F25J003/02A6; F25J003/02C14; F25J003/02C10; F25J003/06C10
US 6070430	IPCI	F25J0003-02 [ICM,7]
	IPCR	C01B0003-00 [I,C*]; C01B0003-50 [I,A]; C01B0031-00 [I,C*]; C01B0031-18 [I,A]; F25J0003-02 [I,A]; F25J0003-02 [I,C*]; F25J0003-06 [I,A]; F25J0003-06 [I,C*]
	NCL	062/620.000; 062/920.000
	ECLA	C01B003/50D; C01B031/18; F25J003/02A6; F25J003/02C14; F25J003/02C10; F25J003/06C10

ABSTRACT:

Carbon monoxide is separated from a gaseous mixture containing hydrogen and carbon monoxide and contaminated with nitrogen by partially condensing the mixture to provide a hydrogen-enriched vapor feed fraction and a carbon monoxide-enriched liquid feed fraction; separating nitrogen from carbon monoxide in said liquid fraction in a distillation column to provide nitrogen-freed liquid carbon monoxide bottoms and nitrogen-enriched vapor overheads; condensing at least a portion of the overheads against a recycle heat pump stream derived from the gaseous mixture and containing hydrogen and carbon monoxide; and returning at least a portion of said condensed overheads to said nitrogen-separation column as reflux. The recycle heat pump stream usually is provided by condensation from the hydrogen-enriched vapor feed fraction and/or by separation from the carbon monoxide-enriched liquid feed fraction.

SUPPL. TERM: carbon monoxide sepn nitrogen removal
INDEX TERM: Condensation (physical)
Distillation
Distillation columns
Separation
Synthesis gas
(separation of carbon monoxide from nitrogen-contaminated gaseous mixts. also containing hydrogen)

INDEX TERM: 630-08-0P, Carbon monoxide, preparation 1333-74-0P, Hydrogen, preparation
ROLE: PUR (Purification or recovery); PREP (Preparation)
(separation of carbon monoxide from nitrogen-contaminated gaseous mixts. also containing hydrogen)

INDEX TERM: 7727-37-9, Nitrogen, processes
ROLE: REM (Removal or disposal); PROC (Process)
(separation of carbon monoxide from nitrogen-contaminated

gaseous mixts. also containing hydrogen)

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L3 1 EP 0928936/PN
(EP928936/PN)

=> d l3 iall

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:457950 CAPLUS

DOCUMENT NUMBER: 131:75743

ENTRY DATE: Entered STN: 27 Jul 1999

TITLE: Separation of carbon monoxide from
nitrogen-contaminated gaseous mixtures

INVENTOR(S): McNeil, Brian Alfred; Scharpf, Eric William

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

INT. PATENT CLASSIF.:

MAIN: F25J003-02

CLASSIFICATION: 49-9 (Industrial Inorganic Chemicals)

Section cross-reference(s): 47

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 928936	A2	19990714	EP 1999-300070	19990106 <--
EP 928936	A3	19991013		
EP 928936	B1	20021218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6062042	A	20000516	US 1999-225068	19990104
PRIORITY APPLN. INFO.:			GB 1998-693	A 19980113

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 928936	ICM	F25J003-02
	IPCI	F25J0003-02 [ICM,6]
	IPCR	F25J0003-02 [I,C*]; F25J0003-02 [I,A]; F25J0003-06 [I,C*]; F25J0003-06 [I,A]
	ECLA	F25J003/02A6; F25J003/02C14; F25J003/02C10; F25J003/06C10
US 6062042	IPCI	F25J0001-00 [ICM,7]
	IPCR	F25J0003-02 [I,C*]; F25J0003-02 [I,A]; F25J0003-06 [I,C*]; F25J0003-06 [I,A]
	NCL	062/625.000; 062/632.000; 062/920.000
	ECLA	F25J003/02A6; F25J003/02C14; F25J003/02C10; F25J003/06C10

ABSTRACT:

Carbon monoxide is separated from a gaseous mixture containing hydrogen and contaminated with nitrogen by separating hydrogen and carbon monoxide contents to provide a carbon monoxide-enriched nitrogen-containing stream and separating carbon monoxide and nitrogen contents of the stream in a nitrogen-separation column to provide a nitrogen-enriched overheads vapor and a nitrogen-freed bottoms. The overheads vapor is washed with liquid nitrogen to remove carbon monoxide therefrom and the resultant carbon monoxide-enriched liquid nitrogen is returned to the column as addnl. reflux. The liquid nitrogen wash simultaneously reduces the loss of carbon monoxide with the nitrogen-enriched vapor and provides refrigeration to

the process. When the gaseous feed is a synthesis gas also containing methane, the methane and carbon monoxide contents can be separated before or after separation of the nitrogen and carbon monoxide contents.

SUPPL. TERM: sepn carbon monoxide nitrogen contaminated gas; synthesis
gas carbon monoxide sepn
INDEX TERM: Separation
(cryogenic; separation of carbon monoxide from
nitrogen-contaminated gaseous mixts.)
INDEX TERM: Synthesis gas
(separation of carbon monoxide from nitrogen-contaminated
gaseous mixts.)
INDEX TERM: 74-82-8P, Methane, preparation 1333-74-0P, Hydrogen,
preparation
ROLE: PEP (Physical, engineering or chemical process); PUR
(Purification or recovery); PREP (Preparation); PROC
(Process)
(separation of carbon monoxide from nitrogen-contaminated
gaseous mixts.)
INDEX TERM: 630-08-0P, Carbon monoxide, preparation
ROLE: PUR (Purification or recovery); PREP (Preparation)
(separation of carbon monoxide from nitrogen-contaminated
gaseous mixts.)
INDEX TERM: 7727-37-9, Nitrogen, processes
ROLE: REM (Removal or disposal); PROC (Process)
(separation of carbon monoxide from nitrogen-contaminated
gaseous mixts.)